Oxygen and life support

899 Series Oxygen Cylinder and Variable Flow Regulator Assembly

The 899 Series Oxygen Cylinder & Variable Flow Regulator Assembly supplies aviation grade oxygen at a variable flow rate for supplemental or therapeutic use. The unit regulates high-pressure oxygen from the cylinder to a low pressure that is available at the outlet. The outlet flow rate can be set for flow rates of 2 to 8 LPM, NTPD by adjusting the flow control knob. The flow rate from the outlet is indicated on the calibrated flow gauge.

Other features of the 899 Series Oxygen Cylinder & Variable Flow Regulator Assembly include a high-pressure gauge, a charging valve assembly, a low-pressure relief valve, a high-pressure safety outlet assembly, an ON/OFF valve, and an outlet assembly.

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AVOX Systems

AIRCRAFT SYSTEMS SEGMENT

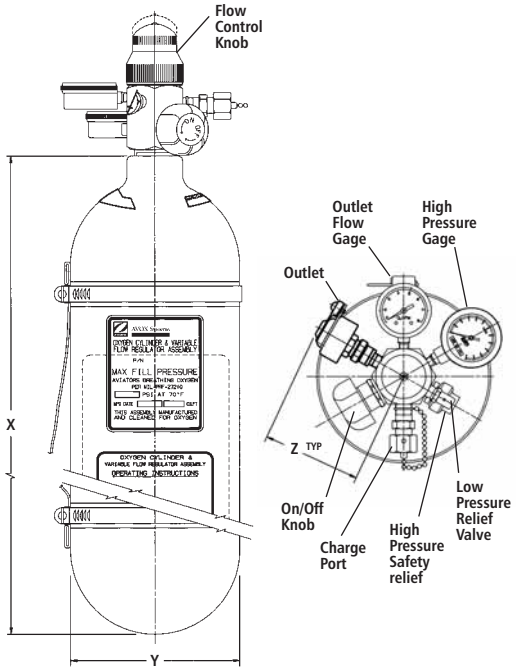
AS9100

Specifications

Outlet Flow Range:	2 – 8 LPM, NTPD
Inlet Pressure Range:	150 – 1,800 / 1,850 psig
Charge/fill with AVOX P/N 5020-1 Filler Assembly	
Steel or Lightweight Composite cylinders available	
Cylinder capacities nominal: 22, 40, 50, 77, and 115 cu. ft.	

Accessories

Accessories	Part No.	Description
DUO-SEAL® Mask with Flow Indicator	28312 Series	Natural rubber oral-nasal molded constant flow mask provides long duration comfort.
DUO-SEAL® Mask with Flow Indicator and Microphone	28316 Series	Same as above with carbon microphone.
Sky Mask with Flow Indicator	28314 Series	Soft rubber-like oral-nasal mask with Flow Indicator Assembly, P/N 8540.
Disposable Mask	28301 Series	Inexpensive throw-away rebreather-type mask (indicate plug-in fitting).
Filler Coupling	5020-01	Filler coupling connects unit with standard source of oxygen for refilling.
Airline Passenger Masks	289-601 Series 289-701 Series 289-801 Series	Passenger masks for airline and executive aircraft.
Therapeutic Oxygen Mask	803269-01	Hudson re-breather therapeutic oxygen mask – contains 5065-10 connector.



Basic Unit Part Number 899 – [ ] [ ] 0 [ ]

Regulator Assembly

Call-Out	Outlet Press Range (PSIG)	Inlet Supply Range (PSIG)	Flow Range (LPM, NTPD)	Wgt. (lbs.) Max.	Mounting Thread Size	For Use with Cylinder Type
A	0 - 100	150 - 1,850	2 - 8	2.60	1.00 - 11.50 ANPT	DOT-3HT-1850
B	0 - 100	150 - 1,800	2 - 8	2.60	1.00 - 11.50 ANPT	DOT-3AA-1800
C	0 - 100	150 - 1,850	2 - 8	2.50	.75 - 16 UNF-2A	DOT-E8162-1850

Outlet Style

Call-Out	Interface Standard (Mates With)	Z Dim. Nom.	Weight (lbs.)
A	AN-6009-2A (P/N 5065-10)	2.50	.046
B	ARO-P/N 0674G (P/N 29559)	2.68	.085
C	Puritan-Type AV-100 (P/N 14807)	2.56	.085

Cylinder Finish (Paint) Green

Call-Out	
0	Composite Cylinder: Green Per FED-STD-595. Color No. 14187 Steel Cylinder: Green Per FED-STD-595. Color No. 24062

Cylinder-Composite(C) or Steel(S)

Call-Out	Cyl. Cap. (cu. ft.)	Cylinder Type	X (Max. Inch Dim.)	Y (Max. Inch Dim.)	Weight (lbs.) Max.
C22	22.8	DOT-E-8162	19.85	5.20	5.9
C40	40.0	DOT-E-8162	20.45	6.80	10.0
C50	50.1	DOT-E-8162	25.05	6.80	12.1
C77	77.1	DOT-E-8162	29.65	7.60	19.3
C15	115.7	DOT-E-8162	31.55	9.10	27.7
S22	22.0	DOT-3AA-1800	18.38	5.31	12.8
S40	39.4	DOT-3HT-1850	19.38	6.88	16.3
S50	49.8	DOT-3HT-1850	23.51	6.88	19.4
S66	66.0	DOT-3HT-1850	26.70	7.38	26.2
S76	76.5	DOT-3HT-1850	30.00	7.38	28.8
S15	115.0	DOT-3HT-1850	29.81	9.12	43.6

WARNING

IMPROPER USE OR IMPROPER MAINTENANCE OF THIS EQUIPMENT MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

THIS EQUIPMENT IS INTENDED TO BE USED ONLY FOR AVIATION APPLICATIONS AND IS TO BE USED BY, OR UNDER THE SUPERVISION OF, A PILOT OR CREW MEMBER TRAINED AND QUALIFIED IN ITS USE. THIS EQUIPMENT IS TO BE SERVICED ONLY IN ACCORDANCE WITH THE APPLICABLE COMPONENT MAINTENANCE MANUAL AVAILABLE FROM AVOX SYSTEMS AND ONLY BY SERVICE TECHNICIANS TRAINED IN THE INHERENT HAZARDS OF HIGH-PRESSURE AVIATION OXYGEN AND KNOWLEDGEABLE IN THIS EQUIPMENT. THE NAMES OF AUTHORIZED SERVICE CENTERS ARE AVAILABLE FROM AVOX SYSTEMS OR YOUR AUTHORIZED AVOX SYSTEMS DISTRIBUTOR.

THIS EQUIPMENT IS TO BE USED ONLY WITH AVIATOR'S BREATHING OXYGEN MEETING THE REQUIREMENTS OF MIL-PRF-27210.

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AVOX Systems

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